THE PROCEEDINGS OF THE PHYSICAL SOCIETY

Section B

FROM JANUARY 1952 TO DECEMBER 1952

VOLUME 65

Published by
THE PHYSICAL SOCIETY
1 Lowther Gardens, Prince Consort Road,
London S.W. 7

OFFICERS AND COUNCIL, 1952–53

PRESIDENT

R. Whiddington C.B.E., M.A., D.Sc., F.R.S.

VICE-PRESIDENTS
who have filled the Office of President

Sir Frank Smith, G.C.B., G.B.E., D.Sc., LL.D., F.R.S. (1924–26)
Sir Owen Richardson, M.A., D.Sc., F.R.S. (1926–28)
W. H. Eccles, D.Sc., M.I.E.E., F.R.S. (1928–30)
A. O. Rankine, O.B.E., D.Sc., F.R.S. (1932–34)
T. Smith, M.A., F.R.S. (1936–38)
Sir Charles Darwin, K.B.E., M.C., M.A., Sc.D., F.R.S. (1941–43)
E. N. da C. Andrade, Ph.D., D.Sc., F.R.S. (1943–45)
Sir David Brunt, M.A., Sc.D., F.R.S. (1945–47)
G. I. Finch, M.B.E., D.Sc., F.R.S. (1947–49)
S. Chapman, M.A., D.Sc., F.R.S. (1949–50)
L. F. Bates, D.Sc., Ph.D., F.R.S. (1950–52)

VICE-PRESIDENTS

A. C. G. Menzies, M.A., D.Sc.
J. H. Awbery, M.A., B.Sc.
D. Roaf, M.A., D.Phil.
R. C. Evans, M.A., Ph.D.

HONORARY SECRETARIES

C. G. Wynne, B.A. (*Business*)
H. H. Hopkins, D.Sc. (*Papers*)

HONORARY FOREIGN SECRETARY

E. N. da C. Andrade, Ph.D., D.Sc., F.R.S.

HONORARY TREASURER

A. J. Philpot, C.B.E., M.A., B.Sc.

HONORARY LIBRARIAN

R. W. B. Pearse, D.Sc., Ph.D.

ORDINARY MEMBERS OF COUNCIL

A. B. Wood, O.B.E., D.Sc.
H. S. W. Massey, B.A., Ph.D., F.R.S.
W. V. Mayneord, D.Sc.
R. W. B. Stephens, B.Sc., Ph.D.
S. Marsh, D.Sc., Ph.D.
A. E. De Barr, B.Sc.
S. Devons, M.A., Ph.D.
F. Llewellyn Jones, M.A., D.Phil.
R. W. Ditchburn, M.A., B.Sc., Ph.D.
E. P. George, B.Sc., Ph.D.
H. G. Kuhn, M.A., Dr.Phil.
A. G. Peacock, B.Sc.

COLOUR GROUP

Chairman
T. Vickerstaff, M.Sc., Ph.D.

Honorary Secretary
R. W. G. Hunt, B.Sc.

LOW-TEMPERATURE GROUP

Chairman
D. M. Newitt, D Sc., F.R.S.

Honorary Secretary
G. G. Haselden, Ph.D. (to December 1952)
F. Din, Ph.D. (from December 1952)

OPTICAL GROUP

Chairman
A. C. G. Menzies, M.A., D.Sc.

Honorary Secretary
K. J. Habell, M.Sc.

ACOUSTICS GROUP

Chairman
W. West, B A., M.I.E.E.

Joint Honorary Secretaries
W. A. Allen, B.Arch., A.R.I.B.A.
R. W. B. Stephens, B.Sc., Ph.D.

SECRETARY–EDITOR

Miss A. C. Stickland, M.Sc., Ph.D.
1 Lowther Gardens, Prince Consort Road, London S.W.7
(*Telephone* : KENsington 0048)

CONTENTS

Part 1. *January* 1952

PAGE

Editorial 1
Prof. F. L. Hopwood. Water Bells 2
Dr. H. O. W. Richardson. The Use of Current Sheets in the Design of Magnets to give Bounded Fields of Required Form, free from Edge Distortion . . 5
Dr. H. O. W. Richardson. The Extension of the Electrolytic Tank Method to the Study of Magnetic Fields due to Iron-clad Current Sheets in Three Dimensions 15
Dr. B. Szigeti. On the Torsional Vibrations of Long Chain Molecules. . . . 19
Dr. N. R. Tawde and Dr. N. Ramanathan. Fluorescence of Dyestuff Solutions: Viscosity and Temperature Effects 33
Dr. G. Klein. Optical Transmission of Certain Colloidal Solutions under Relaxation Conditions 40
Dr. R. C. Faust. An Interferometric Method of Studying Local Variations in the Refractive Indices of a Solid 48
Dr. T. S. Moss. Optical Properties of Tellurium in the Infra-Red 62
Mr. J. N. Eastabrook and Dr. A. J. C. Wilson. The Diffraction of X-Rays by Distorted-Crystal Aggregates: III—Remarks on the Interpretation of the Fourier Coefficients 67
Mr. J. S. Preston and Mr. G. W. Gordon-Smith. A New Determination of the Luminance Factor of Magnesium Oxide 76
Letter to the Editor:
Mr. D. J. C. Yates. A Note on some Proposed Equations of State for the Expansion of Rigid Porous Solids on the Adsorption of Gases and Vapours 80
Reviews of Books 82
Contents for Section A 86
Abstracts for Section A 87

Part 2. *February* 1952

Dr. R. Latham, Mr. M. J. Pentz and Dr. M. Blackman. A Coil System for an Air-cored Betatron 89
Dr. G. Liebmann. Magnetic Electron Microscope Projector Lenses . . . 94
Mr. W. G. Standring and Mr. J. S. T. Looms. The Electrical and Luminous Characteristics of Short Air Sparks suitable for High Speed Photography . 108
Dr. R. S. Longhurst. A Note on the Calculation of Principal Ray Aberration . 116
Mr. A. N. Gent and Mr. R. S. Rivlin. Experiments on the Mechanics of Rubber: I—Eversion of a Tube 118
Mr. W. P. Osmond. An Interpretation of the Magnetic Properties of some Iron-Oxide Powders 121
Mr. D. A. Wright and Dr. J. Woods. The Emission from Oxide-coated Cathodes in an Accelerating Field 134
Dr. H. K. Henisch and Mr. E. W. Saker. The Effect of Mercury on Selenium . 149
Dr. E. W. J. Mitchell. Impurity Scattering in Oxide Semiconductors . . . 154
Letters to the Editor:
Prof. P. Selényi. Some Further Observations on the Effect of Bending on Selenium Rectifier Discs 161
Mr. E. W. Lee. The Approach to Saturation Magnetostriction of Nickel . 162
Reviews of Books 163
Contents for Section A 166
Abstracts for Section A 167

Part 3. *March* 1952

PAGE

Mr. J. S. Greenhow. Characteristics of Radio Echoes from Meteor Trails : III—The Behaviour of the Electron Trails after Formation 169
Dr. L. E. Lawley. The Propagation of Sound through Gases contained in Narrow Tubes 181
Dr. G. Liebmann. The Magnetic Electron Microscope Objective Lens of Lowest Chromatic Aberration 188
Dr. D. F. Gibbons. Effect of Strain Ageing upon the Distribution of Glide Bands in Cadmium Crystals 193
Dr. A. F. Gibson. Single Contact Lead Telluride Photocells 196
Dr. A. F. Gibson. Lead Sulphide Rectifier Photocells 214
Dr. E. Billig. A Note on the Structure of Selenium 216
Dr. B. R. Coles. Electronic Structures and Physical Properties in the Alloy Systems Nickel–Copper and Palladium–Silver 221
Dr. K. Hoselitz and Dr. M. McCaig. Torque Curves and other Properties of Permanent Magnet Alloys 229
Letters to the Editor :
Mr. P. C. Banbury. Double Surface Lead Sulphide Transistor . . . 236
Miss T. J. Dillon. Photosensitive Neon–Argon Discharge Tubes in Photometry 236
Reviews of Books 238
Contents for Section A 246
Abstracts for Section A 247

Part 4. *April* 1952

Prof. L. Bru, Dr. M. P. Rodriguez and Miss R. Vega. Analogies between the Diffraction of Light and Electron Diffraction by Gas Molecules . . 249
Prof. L. Bru, Dr. M. Cubero and Dr. J. Garrido. Homometric Diffraction Gratings 255
Dr. J. C. E. Jennings. The Virtual Optics of the Median Plane of Axially Symmetric Magnetic Prisms 256
Dr. W. Ehrenberg and Dr. J. C. E. Jennings. Measurements of the Electron-Optical Properties of Solenoid Prisms 265
Mr. G. W. Gordon-Smith. The Spectral Reflection Characteristics of a Smoked Magnesium Oxide Surface 275
Mr. H. Martin and Mr. H. A. Woods. Low-frequency Noise Spectra of Hot-filament Low-pressure Discharge Tubes 281
Mr. B. H. Flowers, Mr. J. D. Lawson and Mr. E. B. Fossey. A Thick-walled Ionization Chamber for Measuring the Intensity of X-Radiation of Energy up to 25 Mev 286
Mr. A. Cownie and Prof. L. S. Palmer. The Effect of Moisture on the Electrical Properties of Soil 295
Letters to the Editor:
Mr. J. H. Calderwood, Dr. R. Cooper and Mr. A. A. Wallace. The Electric Breakdown of Alkali Halide Crystals 301
Dr. R. Cooper and Miss J. Harrington. Positive Current Creep in Selenium Rectifiers 303
Mr. A. K. Saha and Miss M. Ghosh. The Mechanism of the Low-Frequency Electrodeless Discharge in Chlorine and the Influence of Irradiation . 304
Dr. J. W. Menter, Dr. J. Nutting and Mrs. A. L. Tsou. Austenite in Low Carbon Iron 305
Report of the Copenhagen Meeting of the General Assembly of the International Union of Pure and Applied Physics 306
Reviews of Books 308
Contents for Section A 310
Abstracts for Section A 311

Part 5. *May* 1952

PAGE

Dr. H. J. Grenville-Wells. The Texture of Diamonds used for Counting α, β or γ Particles as found from Divergent-Beam X-Ray Photographs . 313

Dr. J. E. Raffle and Mr. E. J. Robbins. Non-Linear Amplification in E.M.I. Photomultipliers 320

Prof. R. M. Chaudhri and Mr. M. A. Baqui. On the Measurement of Current Density at the Cathode of a Glow Discharge and Aston's Law at Low Pressures and High Discharge Voltages 324

Dr. K. S. W. Champion. The Theory of Gaseous Arcs: I—The Fundamental Relations for the Positive Columns. 329

Dr. K. S. W. Champion. The Theory of Gaseous Arcs: II—The Energy Balance Equation for the Positive Columns 345

Mr. N. R. Labrum and Mr. E. K. Bigg. Observations on Radio-Frequency Oscillations in Low-Pressure Electrical Discharges 356

Dr. R. Bechmann. An Improved Frequency Equation for Contour Modes of Square Plates of Anisotropic Material 368

Dr. R. Bechmann. Elastic and Piezoelectric Coefficients of Lithium Sulphate Monohydrate 375

Dr. A. F. Gibson. The Absorption Spectra of Single Crystals of Lead Sulphide, Selenide and Telluride 378

Letters to the Editor:

Dr. E. H. Putley. Electrical Conductivity in the Compounds PbS, PbSe, PbTe 388

Dr. G. O. Jones and Mr. F. F. Roberts. The Spontaneous Magnetization of Magnesium Ferrite and Magnesium Ferrite-Aluminate Powders at Low Temperatures 390

Reviews of Books 391

Contents for Section A 394

Abstracts for Section A 395

Part 6. *June* 1952

Dr. P. T. Landsberg. Further Results in the General Theory of Barrier Layer Rectifiers 397

Dr. R. Cooper. Breakdown in Selenium Rectifiers 409

Dr. G. F. J. Garlick and Mr. G. T. Wright. Characteristics of Scintillation Counters 415

Dr. L. Jacob. The Current in the Electron Immersion Objective 421

Dr. D. G. Avery. An Improved Method for Measurements of Optical Constants by Reflection 425

Mr. C. G. Wynne. Primary Aberrations and Conjugate Change. 429

Dr. H. D. Parbrook and Dr. E. G. Richardson. Propagation of Ultrasonic Waves in Vapours near the Critical Point 437

Prof. E. N. da C. Andrade and Dr. R. F. Y. Randall. The Influence of Electrolytes on the Mechanical Properties of Certain Metal Single Crystals . . 445

Letters to the Editor:

Mr. G. D. Adam and Dr. K. J. Standley. Ferromagnetic Resonance in Manganese Antimonide 454

Mr. E. W. Lee. Low Remanence and the Temperature Variation of Permeability of Silicon Iron Alloys. 455

Mr. J. M. Naish and Mr. E. R. Webb. Strain Patterns in Toughened Glass . 457

Mr. J. Mazur. On the Sampling of Water Droplets in Natural Clouds and in Radiation Fogs 457

Mr. P. F. Little and Dr. A. von Engel. The Dispersion of Electron Beams in Gases 459

Mr. F. F. Roberts. Microwave Faraday Rotation in Liquid Oxygen . . 460

Dr. R. Street, Dr. J. C. Woolley and Mr. P. B. Smith. The Influence of Heat Treatment on Magnetic Viscosity in Permanent Magnet Alloys . 461

Contents for Section A 462

Abstracts for Section A 463

Part 7. *July* 1952

PAGE

Dr. F. C. Champion. Electrical Counting Properties of Diamonds . . . 465
Mrs. K. Stratton and Dr. F. C. Champion. Electrical Counting Response of Two Large Diamonds under Beta-Irradiation 473
Prof. A. L. Reimann and Mr. J. V. Sullivan. Rectification Phenomena Exhibited by Natural and Sulphurized Galena 480
Mr. A. N. Gent and Mr. R. S. Rivlin. Experiments on the Mechanics of Rubber: II—The Torsion, Inflation and Extension of a Tube 487
Mr. P. Grootenhuis, Dr. R. W. Powell and Mr. R. P. Tye. Thermal and Electrical Conductivity of Porous Metals made by Powder Metallurgy Methods 502
Mr. R. S. Barnes. Effects associated with the Flow of Vacancies in Intermetallic Diffusion 512
Mr. A. R. Verma. New Observations of Crystal Overgrowth on Silicon Carbide . 525
Mr. F. R. L. Schoening, Dr. J. N. van Niekerk and Dr. R. A. W. Haul. Influence of the Apparatus Function on Crystallite Size Determinations with Geiger Counter Spectrometers 528
The late Mr. H. Lund and Mr. L. Ward. The Spectral Emissivities of Iron, Nickel and Cobalt 535
Dr. K. E. Spells. A Study of Circulation Patterns within Liquid Drops moving through a Liquid 541
Mr. E. W. B. Gill and Mr. G. F. Alfrey. The Electrification of Liquid Drops . 546
Letters to the Editor:
Prof. P. Selényi. The Influence of Mercury Vapour on Selenium Rectifiers and Selenium Photoelements 552
Mr. H. A. Gebbie and Mr. D. G. Kiely. The Dielectric Constant and Loss of Amorphous Selenium at a Wavelength of 3 cm 553
Dr. R. J. Weiss. Extinction Effects in Powders 553
Corrigenda 555
Reviews of Books 555
Contents for Section A 558
Abstracts for Section A 559

Part 8. *August* 1952

Dr. A. J. Goss and Mr. S. Weintroub. The Growth from the Melt of Single Crystals of Low Melting Point Metals 561
Mr. K. E. Puttick. The Growth from the Melt of Single Crystals of Low Melting Point Metals. (Discussion) 571
Dr. P. R. Rowland. Asymmetry of Texture in Cubic Crystals Grown from the Melt 572
Dr. K. M. Greenland. The Growth of Thallium-Bromo-Iodide Crystals . 574
Dr. A. C. G. Menzies. Growth of Crystals of Caesium Bromide, and the Infra-Red Transmission Limit in Optical Materials 576
Dr. H. E. Buckley. Crystal Growth Ideas and Crystallographers 578
Mr. J. Dyson. Optics of the Focusing X-Ray Microscope 580
Miss M. M. MacNaughton. The Focal Properties and Spherical Aberration Constants of Aperture Electron Lenses 590
Dr. U. F. Gianola. Investigation of Magnetic Lenses having the Axial Field $H(0, z)=\gamma_n z^n$ 597
Dr. J. Woodrow, Mr. B. W. Mott and Mr. H. R. Haines. Analysis of Polarized Light Reflected from Absorbing Materials at Normal Incidence . . 603
Dr. R. Parker. The Magneto-Resistance of Ferromagnetic Al–Si–Fe Alloys . 616
Mr. J. M. Somerville. Sparking Potentials in a Transverse Magnetic Field . 620
Dr. E. Rabinowicz. Metal Transfer during Static Loading and Impacting . 630
Dr. D. R. Davies and Mr. T. S. Walters. Further Experiments on Evaporation from Small, Saturated, Plane Areas into a Turbulent Boundary Layer . . 640
Mr. A. N. Gent and Dr. R. S. Rivlin. Experiments on the Mechanics of Rubber: III—Small Torsions of Stretched Prisms 645

Letters to the Editor :
Mr. E. J. Gillham and Mr. J. S. Preston. Transparent Conducting Films . 649
Dr. J. W. Granville and Dr. H. K. Henisch. Area Contacts on Germanium 650
Dr. J. W. Granville, Dr. H. K. Henisch and Mr. P. M. Tipple. Contact Properties of p-Type Germanium 651
Reviews of Books 652
Contents for Section A 654
Abstracts for Section A 655

Part 9. *September* 1952

Dr. A. Schallamach. The Load Dependence of Rubber Friction . . . 657
Dr. K. V. Shooter and Dr. D. Tabor. The Frictional Properties of Plastics. . 661
Dr. E. Rabinowicz and Dr. K. V. Shooter. The Transfer of Metal to Plastics during Sliding 671
Prof. L. S. Palmer. On the Dielectric Constant of the Water in Wet Clay . . 674
Dr. R. Street, Dr. J. C. Woolley and Dr. P. B. Smith. Magnetic Viscosity under Discontinuously and Continuously Variable Field Conditions . . . 679
Dr. N. L. Allen. The Threshold Gas Pressure Required to Sustain a Stable Arc in a Magnetic Field 697
Dr. W. G. Kannuluik and Mr. E. H. Carman. The Thermal Conductivity of Rare Gases 701
Mr. L. D. Brownlee and Dr. E. W. J. Mitchell. On the Variations of Lattice Parameters of some Semiconducting Oxides 710
Mr. I. G. Edmunds and Mr. R. M. Hinde. The Formation of Order in the Alloy $AuCu_3$. 716
Dr. W. Weinstein. Iterative Ray-tracing 731
Letters to the Editor :
Dr. E. H. Putley. The Conductivity and Hall Coefficient of Sintered Lead Sulphide 736
Mr. Tor H. Tønnesen. On the Distribution of Transistor Action . . 737
Dr. V. V. Agashe. The Study of the Changes in Pressure Rise and Current in a Low-Frequency Discharge due to Irradiation 740
Dr. J. Feinstein. On the Nature of the Decay of a Meteor Trail . . . 741
Dr. R. J. Uffen and Dr. A. D. Misener. On the Thermal Properties of the Earth's Interior 742
Corrigendum (Selényi) 742
Reviews of Books 743
Contents for Section A 750
Abstracts for Section A 751

Part 10. *October* 1952

Dr. J. Bor. A New Photographic Method of Measuring the Dispersion of the Optical Constants of Metals 753
Dr. J. F. Archard, Dr. P. L. Clegg and Prof. A. M. Taylor. Photoelectric Analysis of Elliptically Polarized Light 758
Dr. J. Friedel. The Absorption of Light by Noble Metals and its Relation to the van der Waals Contribution to the Cohesive Energy 769
Dr. P. L. Clegg. The Optical Constants of Thin Metallic Films Deposited by Evaporation 774
Dr. V. E. Cosslett. Intensity Limitations in a Point Source of X-Rays . . 782
Dr. E. W. Saker. The Optical Properties of Liquid Selenium 785
Dr. O. S. Heavens. The Contamination in Evaporated Films by the Material of the Source 788
Dr. H. Edels. Self-Absorption in Arc Sources in Thermal Equilibrium . . 794
Dr. E. R. Andrew and Mr. F. A. Rushworth. Ring Shims for Coned Magnet Polecaps 801

PAGE

Dr. A. R. Verma. Observations on Growth and Etch Phenomena on Haematite (Fe_2O_3) Crystals 806
Dr. F. C. Frank and Mr. A. N. Stroh. On the Theory of Kinking . . . 811
Letters to the Editor :
Mr. T. Smith. Supplementary Note on Ray Tracing 822
Dr. S. R. Khastgir and Mr. P. S. V. Setty. Positive and Negative Joshi Effect in a.c. ' Silent ' Discharges in Iodine Vapour 823
Mr. L. E. Collins and Dr. O. S. Heavens. The Epitaxial Growth of Germanium on Rocksalt 825
Reviews of Books 826
Contents for Section A 830
Abstracts for Section A 831

Part 11. *November* 1952

Prof. Sir Lawrence Bragg. X-Ray Analysis of Proteins. (36th Guthrie Lecture). 833
Mr. W. D. Chesterman. The Dynamics of Small Transient Cavities . . 846
Dr. R. S. Tebble, Dr. J. E. Wood and Mr. J. J. Florentin. The Temperature Variation of the Magnetization of Nickel in Low and Moderate Fields . . 858
Mr. T. Broom. The Effect of Temperature of Deformation on the Electrical Resistivity of Cold-worked Metals and Alloys 871
Mr. M. J. Dumbleton and Mr. B. W. Howlett. Yield Points in Bending Experiments on Zinc Crystals 882
Mr. H. L. Wain. Some Observations on the Yield Point in Zinc 886
Mr. N. Fuschillo. A Critical Study of the Asymmetrical Temperature Gradient Thermoelectric Effect in Copper and Platinum 896
Letters to the Editor :
Mr. J. R. Gould. Experiments on the Mechanics of Rubber—II : The Torsion, Inflation and Extension of a Tube 905
Dr. A. J. Goss and Mr. E. V. Vernon. The Growth and Orientation of Single Crystals of Indium 905
Dr. D. A. Jones, Prof. R. V. Jones and Mr. R. W. H. Stevenson. Infra-Red Transmission Limits of Single Crystals of some Fluorides 906
Mr. J. B. Gunn. Resistance of Germanium Contacts 908
Dr. A. B. Bhatia and Dr. E. Wolf. The Zernike Circle Polynomials Occurring in Diffraction Theory 909
Mr. T. S. Robinson. Optical Constants by Reflection 910
Reviews of Books 912
Contents for Section A 918
Abstracts for Section A 919

Part 12. *December* 1952

Mr. R. L. Graham and Dr. O. Klemperer. On the Design of a 15 Mev β-Ray Spectrometer 921
Dr. H. H. Hopkins. The Wave Aberration Associated with Skew Rays . . 934
Mr. L. R. O. Storey. Ultrasonic Absorption in Mixtures of Ethyl Alsohol and Water 943
Mr. B. T. M. Willis and Mr. H. P. Rooksby. Crystal Structure and Anti-ferromagnetism in Haematite 950
Mr. R. K. Hart. The Thermal Oxidation of Tin 955
Dr. A. J. W. Moore. Accommodation Kinking Associated with the Twinning of Zinc 956
Dr. C. A. Hogarth. Transistor Action in Lead Telluride 958
Mr. J. M. Somerville, Mr. W. R. Blevin and Mr. N. H. Fletcher, Electrode Phenomena in Transient Arcs 963
Dr. F. G. Smith. The measurement of the Angular Diameter of Radio Stars . 971

PAGE

Mr. H. G. Hay and Mr. R. S. Unwin. Tropospheric Wave Propagation in a Duct of Non-Uniform Height 981

Letters to the Editor :

Dr. E. W. Saker. Temperature-Variation of the Rectification Chararteristics at Selenium Contacts 990

Dr. E. H. Putley. Thermo- and Galvano-Magnetic Coefficients for Semiconductors 991

Dr. E. H. Putley. Intrinsic Conduction in PbS, PbSe, PbTe 993

Mr. R. Lawrance and Dr. A. F. Gibson. The Measurement of Drift Mobility in Semiconductors 994

Dr. B. V. Rollin and Mr. E. L. Simmons. Long Wavelength Infra-Red Photo-conductivitv of Silicon at Low Temperatures 995

Dr. F. Abelès. On a Method for Measurements of Optical Constants by Reflection 996

Obituary Notices :

Donald Kenneth Ashpole 997

Granville Hugh Baillie 997

Allan Hitchen Ferguson 998

Meyer Finn 1001

Julius Hartmann 1002

Charles Herbert Lees 1002

William Lethersich 1004

Frederick Henry Newman 1005

Malcolm Macleod Nicolson 1006

Reviews of Books 1007

Contents for Section A 1013

Abstracts for Section A 1014

Subject Index, Section B, Vol. **65** 1017

Index of Authors (with Titles), Section B, Vol. **65** 1025

Index to Reviews of Books, Section B, Vol. **65** 1031